



# CITY OF LODI COUNCIL COMMUNICATION

1M

AGENDA TITLE: Approve Plans and Specifications and Authorize Advertisement for Bids for School Street and Spruce Street Wastewater Pipe Improvement Project

MEETING DATE: August **6,2008**

PREPARED BY: Public Works Director

RECOMMENDED ACTION: Approve the plans and specifications and authorize advertisement for bids for the School Street (Spruce Street to 350 Feet South of Spruce Street) and Spruce Street (School Street to Alley East of School Street) Wastewater Pipe Improvement project.

BACKGROUND INFORMATION: This project consists of trenching and installing approximately 535 linear feet of eight-inch wastewater pipe, abandoning the existing wastewater pipe, and other and incidental and related work, all as shown on the plans and specifications for the project and as presented in Exhibit A.

The existing wastewater pipe in this section of School Street was video inspected in June 2008. The video showed that the non-reinforced concrete pipe has extensive deterioration. The pipe joints have large offsets and the pipe wall has a severe corrosion problem. The corrosion problem is **so** severe that there are sections of the pipe missing.

Further investigation by staff has found two areas that contribute to the extensive corrosion problem in the pipeline. First, this section of the wastewater pipe in School Street has a minor reverse slope. This means the wastewater stays in the pipeline for a long period of time during non-peak periods. Second, the wastewater pipe in Spruce Street from the alley east of School Street to School Street was installed nine inches lower than the downstream pipe in School Street. Again, the wastewater stays in the pipeline for an extended period of time during non-peak periods. When wastewater is stagnant or slow-flowing (**less** than two feet per second), hydrogen sulfide gas develops, leading to the deterioration of material containing cement (concrete pipe and cemented joints).

Staff is recommending replacing these two sections of the wastewater pipe to correct the problems as soon as possible. The existing wastewater pipe will be grouted and abandoned in place. The plans and specifications are on **file** in the Public Works Department.

FISCAL IMPACT: The estimated project cost is \$83,000. The project will result in **less** required maintenance for this section of wastewater pipe.

FUNDING AVAILABLE: Funding for this project is included in the FY 08/09 Budget in the Wastewater Replacement Fund (171).  
Planned Bid Opening Date: August 27, 2008

  
F. Wally Sandelin  
Public Works Director

Prepared by Lyman Chang, Senior Civil Engineer  
Attachment  
cc: Water Service Manager  
Senior Civil Engineer Chang

APPROVED:



Blair King, City Manager



# CITY OF LODI

PUBLIC WORKS DEPARTMENT

## EXHIBIT A School St & Spruce St Wastewater Pipe Improvements/

